

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 1. (Previously presented) A schema generator, comprising:
2 a computer readable storage medium;
3 computer software stored on the computer readable storage medium and operable
4 to:
5 parse a plurality of transaction definitions for a software system, wherein
6 each transaction definition comprises one or more parameters; and
7 generate, in response to parsing the plurality of transaction definitions, a
8 plurality of schema definitions for at least a portion of the parsed transaction definitions,
9 wherein the schema definitions are written in a self-describing language;
10 wherein a first schema definition is operable to map the one or more parameters
11 associated with a first transaction definition to a first document written in the self-
12 describing language; and
13 wherein a second schema definition is operable to map a second document written
14 in the self-describing language to the one or more parameters associated with a second
15 transaction definition.

1 2. (Previously presented) The schema generator of Claim 1, wherein the
2 self-describing language comprises Extensible Markup Language (XML) or any version
3 thereof.

1 3. (Previously presented) The schema generator of Claim 1, wherein the
2 self-describing language comprises HyperText Markup Language (HTML) or any
3 version thereof.

1 4. (Original) The schema generator of Claim 1, wherein the self-describing
2 language comprises a language that employs hypertext.

1 5. (Previously presented) The schema generator of Claim 1, wherein the
2 software system comprises an Information Management System (IMS).

1 6. (Original) The schema generator of Claim 1, wherein the transaction
2 definitions are associated with a message format service.

1 7. (Previously presented) The schema generator of Claim 6, wherein the
2 self-describing language comprises Extensible Markup Language (XML) or any version
3 thereof.

1 8. (Currently Amended) A method for generating a plurality of schema
2 definitions, comprising:
3 parsing, in a computer, a plurality of transaction definitions for a software system,
4 wherein each transaction definition comprises one or more parameters; and
5 generating, by the computer, in response to parsing the plurality of transaction
6 definitions, a plurality of schema definitions for at least of portion of the parsed
7 transaction definitions, wherein the schema definitions are written in a self-describing
8 language;
9 wherein a first schema definition is operable to map the one or more parameters
10 associated with a first transaction definition to a first document written in the self-
11 describing language; and
12 wherein a second schema definition is operable to map a second document written
13 in the self-describing language to the one or more parameters associated with a second
14 transaction definition.

1 9. (Previously presented) The method of Claim 8, wherein the self-
2 describing language comprises Extensible Markup Language (XML) or any version
3 thereof.

1 10. (Previously presented) The method of Claim 8, wherein the self-
2 describing language comprises HyperText Markup Language (HTML) or any version
3 thereof.

1 11. (Original) The method of Claim 8, wherein the transaction definitions are
2 associated with a message format service.

1 12. (Currently Amended) A transaction processing system comprising:
2 a computer readable storage medium to store first and second schema definitions
3 generated based on transaction definitions of transactions at a target system, wherein the
4 first schema definition is to map one or more parameters associated with a first of the
5 transaction definitions to a document written in a self-describing language, and wherein
6 the second schema definition is to map a document written in the self-describing
7 language into one or more parameters associated with a second of the transaction
8 definitions;

9 one or more ~~processing units operable to execute~~processors;
10 a software service ~~operable-executable on the one or more processors~~ to receive a
11 transaction request from a requestor and to generate a first object associated with the
12 transaction request;

13 an object generator ~~operable-executable on the one or more processors~~ to convert
14 the first object into a first document written in ~~[[a]]the~~ self-describing language; and

15 a document generator ~~operable-executable on the one or more processors~~ to
16 convert the first document into a first transaction message according to ~~[[a]]the first~~
17 schema definition associated with a first transaction type determinable from the first
18 document, wherein the first transaction message is to be sent to the target system;

19 wherein the document generator is executable to further receive, from the target
20 system, a response message that is responsive to the first transaction message, and
21 convert the response message into a second document according to the second schema
22 definition, wherein the second document is written in the self-describing language;

23 wherein the object generator is executable to further generate a second object
24 from the second document; and

25 wherein the software service is executable to use the second object to provide, to
26 the requestor, data responsive to the transaction request.

1 13. (Previously presented) The transaction processing system of Claim 12,
2 wherein the self-describing language comprises Extensible Markup Language (XML) or
3 any version thereof.

1 14. (Previously presented) The transaction processing system of Claim 12,
2 wherein the self-describing language comprises HyperText Markup Language (HTML)
3 or any version thereof.

1 15. (Currently Amended) The transaction processing system of Claim 12,
2 wherein the transaction generator is further ~~operable-executable~~ to send the first
3 transaction message to a message format service to convert the first transaction message
4 into a format used by the target system.

1 16.-20. (Cancelled)

1 21. (Original) The transaction processing system of Claim 12, wherein the
2 software service comprises a web service and wherein the definition of the first object has
3 been published in a registry.

1 22. (Currently Amended) A method for processing a transaction, comprising:
2 storing first and second schema definitions generated based on transaction
3 definitions of transactions at a target system, wherein the first schema definition is to map
4 one or more parameters associated with a first of the transaction definitions to a
5 document written in a self-describing language, and wherein the second schema
6 definition is to map a document written in the self-describing language into one or more
7 parameters associated with a second of the transaction definitions;
8 receiving, by a computer, a transaction request from a requestor;
9 generating, by the computer, a first object associated with the transaction request;
10 converting, by the computer, the first object into a first document written in
11 [[a]]the self-describing language; [[and]]
12 converting the first document into a first transaction message according to [[a]]the
13 first schema definition associated with a first transaction type determinable from the first
14 document;
15 sending the first transaction message to the target system;
16 receiving, from the target system, a response message that is responsive to the
17 first transaction message;
18 converting the response message into a second document according to the second
19 schema definition, wherein the second document is written in the self-describing
20 language;
21 generating a second object from the second document; and
22 using the second object to provide, to the requestor, data responsive to the
23 transaction request.

1 23. (Previously presented) The method of Claim 22, wherein the self-
2 describing language comprises Extensible Markup Language (XML) or any version
3 thereof.

1 24. (Previously presented) The method of Claim 22, wherein the self-
2 describing language comprises HyperText Markup Language (HTML) or any version
3 thereof.

1 25. (Currently Amended) The method of Claim 22, further comprising:
2 sending the first transaction message to a message format service to convert the
3 first transaction message into a format used by the target system.

1 26.-29. (Cancelled)

1 30. (Original) The method of Claim 22, wherein the first object is generated
2 by a web service and wherein the definition of the first object has been published in a
3 registry.